

Quick Facts

About...Carbapenem-resistant Enterobacteriaceae (CRE)

What are CRE?

Carbapenems are a group of antibiotics that are usually reserved to treat serious infections, and are considered antibiotics of last resort for some infections. When antibiotics are no longer effective in killing a germ this is called resistance. CRE are a family of germs that are difficult to treat because they have high levels of resistance to antibiotics. These germs are found in normal human intestines (gut).

What are the symptoms of CRE?

Sometimes CRE can spread outside the gut and cause serious infections, such as urinary tract infections, bloodstream infections, wound infections, and pneumonia. Some CRE germs have become resistant to almost all available antibiotics and can be deadly.

How is CRE infection spread?

To get a CRE infection, a person must be exposed to CRE germs. CRE germs are usually spread person to person through contact with infected wounds or feces. CRE can cause infections when they enter the body, often through medical devices like ventilators (breathing machines), intravenous (vein) catheters, urinary (bladder) catheters, or wounds caused by injury or surgery.

Who is at risk to get a CRE infection?

Healthy people usually don't get CRE infections. CRE primarily affect patients in acute and long-term healthcare settings, who are being treated for another condition. CRE are more likely to affect those patients who have compromised immune systems or have invasive devices like tubes going into their body. Taking long courses of certain antibiotics might also make it more likely for patients to get CRE infection. For more information see Antibiotic Resistance Quick Facts.

How is CRE infection treated?

People may have the CRE germ in or on their body without it producing an infection. These people are said to be colonized with CRE, and they do not need antibiotics for the CRE. If the CRE are causing an infection, then the antibiotics that will work against it are limited. Additionally, some infections might be able to be treated with other therapies, like draining the infection.

How are CRE infections prevented?

Individuals should tell their healthcare provider if they have recently been hospitalized in another facility or received healthcare in Greece, India, Italy, Pakistan or Vietnam. Antibiotics should only be taking exactly as prescribed. Frequent and proper hand washing is the most effective means of preventing the spread of germs as detailed in Handwashing Quick Facts.

All information presented is intended for public use. For more information, please refer to:

Centers for Disease Control and Prevention (CDC) http://www.cdc.gov/hai/organisms/cre/cre-patients.html

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